

American Fruit Grower

WESTERN EDITION

AUGUST • 1959

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New York State's CA Law
Automatic Peach Packing
Bulk Handling Clings



New Packages for Quality Fruits



August 27th



August 30th

You can spray most fruits with malathion up to 72 hours from harvest without exceeding residue tolerances established by law.

FRUIT	apples	cherries	plums & prunes	peaches	pears	berries
INTERVAL days between last spray and harvest	3	3	3	7	1	1



CALENDAR OF COMING MEETINGS & EXHIBITS

Aug. 5—Connecticut Pomological Society meeting, Bishop Orchards, Cheshire.—Brainerd T. Peck, Sec'y, Lakeside, Conn.

Aug. 9-12—American Institute of Cooperation, 31st annual summer session, University of Illinois, Urbana.—G. L. Jordan, Dept. of Agr'l Economics, U. of Ill., Urbana.

Aug. 10—New York State Horticultural Society summer meeting, Beak and Skiff orchards, U. S. Route 20 south of Syracuse.

Aug. 10-14—26th Annual Citrus Growers Institute, Camp McQuarrie, Fla.—R. E. Norris, Lake County Agricultural Extension Agent, Tavares, Fla.

Aug. 11—Wisconsin State Horticultural Society annual summer meeting, Peninsular Branch Experiment Station, Sturgeon Bay, Wis.—G. C. Klingbeil, Sec'y-Treas., University of Wisconsin, Madison 6.

Aug. 12—Maine Pomological Society field day, Highmoor Farm, Monmouth.

Aug. 13—Annual Minnesota-Western Wisconsin Orchard Tour, La Crescent, Minn.—J. D. Winter, Sec'y, Minnesota Fruit Growers Assn., 719 S.E. 5th St., Minneapolis, Minn.

Aug. 13-14—Northeast Fruit Tree Rootstock conference biennial meeting, University of Vermont, Burlington.—A. J. Heinicke, Director, Cornell University, Ithaca.

Aug. 17-19—Northern Nut Growers 50th annual meeting, Illinois College, Jacksonville, Ill.—Spencer B. Chase, Sec'y, 2338 Parkview Ave., Knoxville, Tenn.

Aug. 27-30—American Society for Horticultural Sciences tour through southeastern Pennsylvania including visits to orchard areas, fruit farms, and the C. H. Musselman Company apple processing plant.

Aug. 30-Sept. 3—American Institute of Biological Sciences and member biological societies including American Society for Horticultural Science, annual meetings, Pennsylvania State University, University Park.—R. E. Larson, Chairman, Penn. State Univ., University Park.

Aug. 31-Sept. 1—United Fresh Fruit and Vegetable Association annual Merchandising and Management conference, Drake Hotel, Chicago, Ill.—Association headquarters, 777 14th St., N. W., Washington 5, D. C.

Sept. 4-12—New York State Fair, Syracuse.

Sept. 14-16—United Fresh Fruit and Vegetable Association annual merchandising and marketing conference, Drake Hotel, Chicago, Ill.—Association headquarters, 777 14th St., N. W., Washington 5, D. C.

Sept. 14-16—Texas Citrus and Vegetable Growers and Shippers meeting, Hotel Statler Hilton, Dallas.—Austin E. Anson, Exec. Vice Pres., 306 East Jackson, Harlingen.

Sept. 16-19—Jackson County Apple Festival, Jackson, Ohio.

Sept. 17-19—8th Annual Apple Festival, Murphysboro, Ill.—For information, Robert C. Voss, 1303 Walnut St., Murphysboro, Ill.

Sept. 23-25—Florida Fruit and Vegetable Association meeting, Hotel Fontainebleau, Miami Beach.—Joffre C. David, Sec'y-Treas., Orlando.

Oct. 4-7—National Association of Marketing Officials annual convention, Asheville, N. C., and Atlanta, Ga.—Wm. A. Wunsch, Pres., State College, N. M.

Oct. 15-24—National Apple Week Association, Inc., fall national apple promotion.—National Apple Week Ass'n, Inc., 1302 18th St., N. W., Washington 6, D. C.

Oct. 21-23—National Agricultural Chemicals Association 26th annual meeting, French Lick-Sheraton Hotel, French Lick, Ind.—Lea S. Hitchner, Exec.-Sec'y, 1145 19th St., N. W., Washington 6, D. C.

Oct. 27-29—Florida State Horticultural Society 72nd annual meeting, Everglades Hotel, Miami.—S. John Lynch, Pres., 29800 Newton Rd., Homestead, Fla.

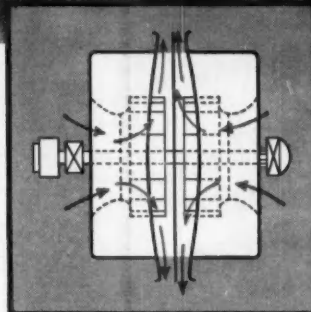
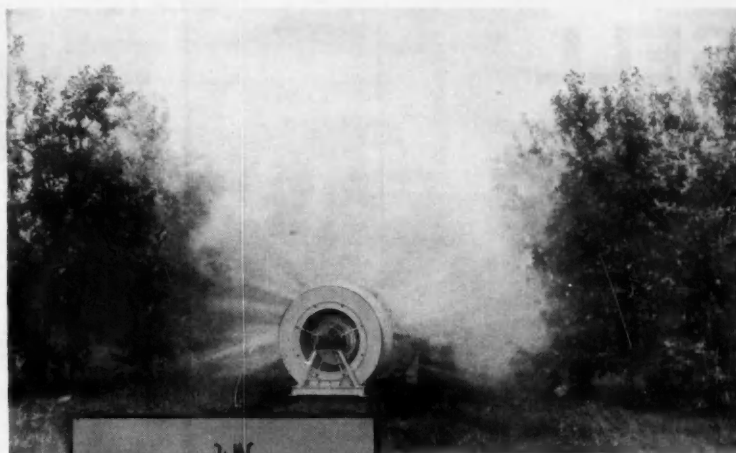
Oct. 27-29—Western Growers Association meeting, Ambassador Hotel, Los Angeles, Calif.—Frank E. Castiglione, Sec'y, 3091 Wilshire Blvd., Los Angeles 5.

Nov. 23-24—Illinois State Horticultural Society annual convention, Abraham Lincoln Hotel, Springfield.—Robert Rogers, Sec'y, Carbondale.

Dec. 6-10—National Junior Vegetable Growers Association convention, Roosevelt Hotel, Washington, D. C.—Grant Snyder, Nat'l Chairman, French Hall, U. of Mass., Amherst.

Dec. 7-9—Washington State Horticultural Association annual meeting, Wenatchee.—John C. Snyder, Sec'y, Pullman, Wash.

Dec. 7-10—Vegetable Growers Association of America annual convention, Dennis and Shelburne Hotels, Atlantic City, N. J.—R. M. Frederick, Exec. Sec'y, 528 Mills Bldg., 17th St. and Pennsylvania Ave., N. W., Washington 6, D. C.



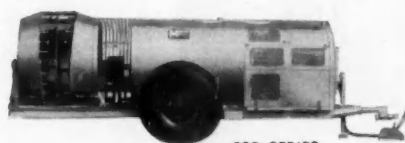
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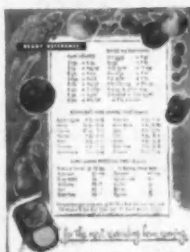
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American Fruit Grower

Cover photograph, by Grant Heilman, shows a busy harvesting scene in the Peters Orchards in Gardner, Pa.

VOL. 79

AUGUST, 1959

No. 8

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AMERICAN FRUIT GROWER

LETTERS TO THE EDITOR

Migrant Workers

Dear Editor:

We liked your recent advice to growers to arrange for getting definite commitments with harvest labor well in advance of the harvest season.

As you may know, it is now one of the big programs of the Farm Labor Division of the Bureau of Employment Security and affiliated state employment services to facilitate the early commitment of migrant crews to farmers for their various harvesting seasons. We term this program the Annual Work Plan. It is, in effect, a current registry of crew leaders with their home addresses.

During the winter months, when they are working in their home area, local office farm placement personnel discuss work plans with the crew leader for the coming year. We work out a schedule or calendar attempting to chart a complete season's work for his crew in the various crops and states. Advance private commitments between farmers and crew leaders are respected, but we are able to fill in gaps in the workers' schedule from orders we have received from farmers when the crew would normally be idle or forced to lose time searching for work during uncommitted weeks.

This program is now nationwide and the index of crews is registered with State Employment Service offices. The crews are growing to depend on the schedules that are prepared for them by our personnel.

It is a program in which every party gains. The agricultural worker is assured of a more or less regular series of work assignments with resultant higher annual earnings and lower traveling costs. The farmer benefits by knowing ahead of time that he will have a dependable crew to harvest his crop at the time needed and not in advance or too late for his needs. The general community gains by not having too many workers in an area either before or during crop season, thus relieving housing, over taxing of relief and hospital facilities, vagrancy, and so forth.

Cleveland, Ohio
Ralph A. Strong
U. S. Department of Labor

Apple Growing in East Africa

Dear Editor:

In this highland country under the equator excellent apples can be grown. The climate, of course, is influenced by the land being situated under the equator but our land lies at 6000 feet or more and is quite cool. Mean day temperature is 85° F. and nights 50° F. most of the year.

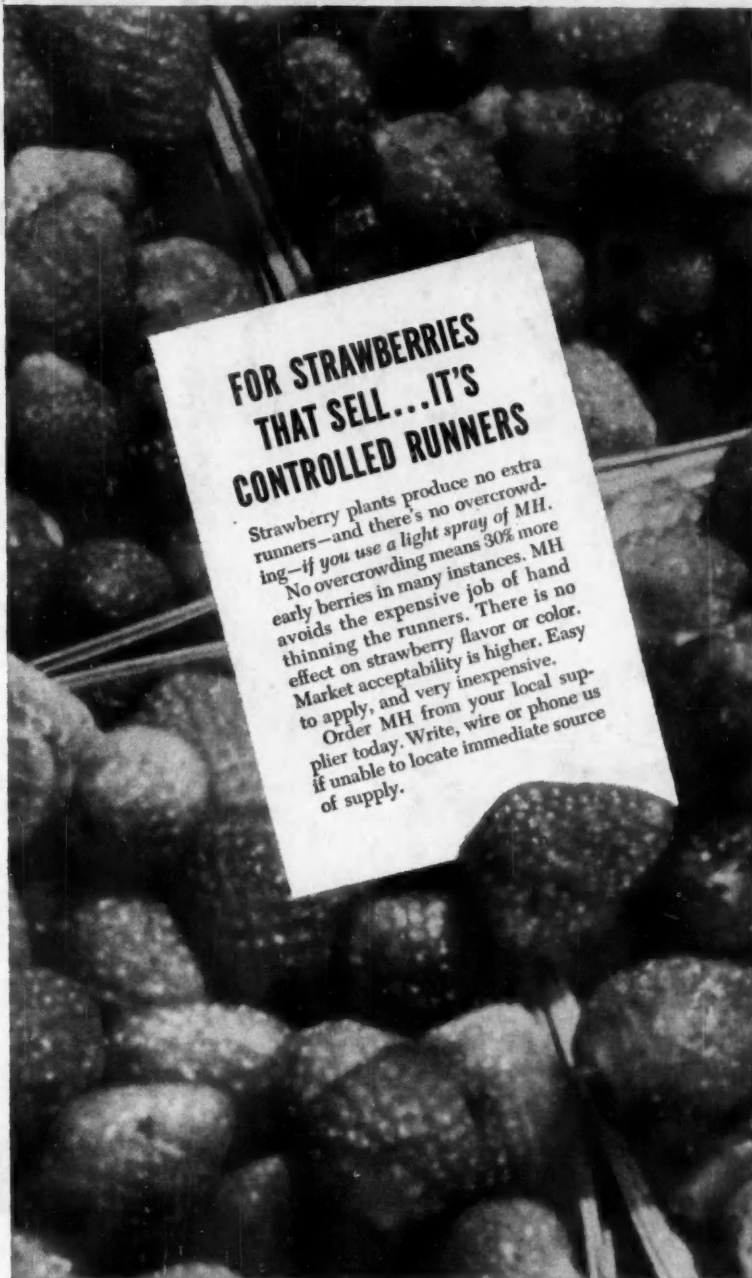
As our trees never lose their leaves completely, it is necessary to influence them to a new season's activity by burning away the previous season's growth. This is done by spraying with a 7% solution of Dytrol, which gives the trees an impulse to flower and shoot with vigor.

Special pruning techniques are necessary to avoid long unbranched shoots. Continuous topping during the growing season results in a reasonably shaped tree. Since our trees, even when budded on vigorous stock, never reach large size, the planting distance is as for northern climate dwarfs. We consider we can grow just as good apples under the equator as can be produced in countries with a winter.

Kitale, East Africa

R. Andersen

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KYS-PAK cushions each apple in a separate ventilated compartment, completely insulated against shock. Each KYS-PAK tray is made of strong molded pulp, oil treated to prevent scald and colored so the apples may be displayed at point of sale to their full advantage.

KYS-PAK trays are available in sizes from 48 to 216 count for use with corrugated, wood or wire-bound containers.



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AMERICAN FRUIT GROWER

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• Fruit for Health •



The consumer wants a riper peach. Firm-ripe peaches travel well in individual cell cartons.

NEW PACKAGES For Quality Fruits

**Today's packages are being designed
to do a better job of protecting fruits**

A great deal of work is going on throughout the country in experimenting with new packages for fresh fruits. Growers and shippers attending the Southwestern Michigan Packaging Show learned about some of these experiments from Donald Stokes, packaging expert in USDA's Agricultural Marketing Service. Excerpts from his talk follow.—Ed.

By DONALD STOKES

U.S. Department of Agriculture

TEN years ago we initiated a research project on prepackaging apples in film bags, and the practice was generally adopted by the industry. Not all apples, however, should be packaged in flexible film bags. Soft-fleshed varieties, such as McIntosh, bruise so easily that they need more protection during the marketing process. For this reason we are continuing our research to develop consumer packages for apples which need more protection. Two types of packages are being evaluated.

The molded pulpboard consumer pack is called a "pyramid" tray because of two raised pyramids in the bottom of the tray which serve to keep the six apples separate and provide a cushion between them. Three methods of completing the package are

being evaluated: A complete overwrap of film; a sleeve or "band" wrap of film; and two strips of pressure-sensitive tape, one strip over each row of apples.

Consumer preference studies conducted by State College of Washington, in stores in the Seattle area, indicated no significant preference for any one wrapping. Red Delicious were used in the tests.

The "Triplett" consumer tray is a large pulpboard tray with the same
(Continued on page 17)



Western pears packed in open pyramid-type pulpboard trays and telescoped master container arrived in eastern terminal markets in excellent condition.



Triplett consumer tray for apples can be cut into three consumer units at the retail store, where the individual trays are overwrapped with film or banded together into a Family-Pak.



McIntosh apples being count packed in wire-bound crates at Horseshoe Bay Farms owned and operated by Alric Erickson and son Howard on Wisconsin's Door County Peninsula.



Alric Erickson, chairman of National Cherry Pie Baking Contest in 1958, congratulates Barbara Chisholm, the winner from Alabama.

The ERICKSONS SPECIALIZE IN . . . QUALITY APPLES

**Their outstanding orchards prove that faith, hard work,
and foresightedness pay handsome dividends**

By F. A. GILBERT

University of Wisconsin

IT IS always interesting and encouraging to know and work with a family that has tremendous faith in the fruit industry and that looks to the future with enthusiasm.

Alric Erickson, of Door Peninsula, Wisconsin, assumed the responsibility of the fruit-development enterprise at Horseshoe Bay Farms, owned by Dr. and Mrs. Robert Cowles, in 1922. He is still carrying on today with the help of one of his boys.

Since graduating from University of Wisconsin in 1950, Howard Erickson has worked with his father and in the last year has taken over more of the responsibility of managing the fruit operation. There are now 175 acres of apples on the farm and 240 acres of red tart cherries. McIntosh is the main apple variety, followed in

order by Delicious, Northwestern Greening, Snow, Wealthy, and Winter Banana. Recent plantings are red sports of Delicious, and one block has a considerable number of Idared.

Harvesting of the apple crop is done by local help. Production averages 35,000 to 40,000 bushels (highest yield 50,000 bushels). Storage capacity for 22,000 bushels will handle all of the fruit which might be stored in any one year, since a portion of the crop, especially the Greenings, is sold for processing.

Horseshoe Bay Farms fruit is known for its excellent quality. A thorough knowledge of spraying and the reliable and careful job of grading and packaging account for this quality.

For many years Dr. J. D. Moore, University of Wisconsin Agricultural Experiment Station, has conducted both cherry and apple spray experi-

ments on the farm. Erickson has not only been a good co-operator but he also has followed the plots closely and applied what he has learned to the rest of his orchard.

In order to keep the fruit free of diseases and insects the trees are thoroughly covered with a Bean Speed Sprayer or a converted sprayer with a Bes-Blo attachment. In addition, a Bean high pressure sprayer is used for the small trees.

The majority of the apples are packed in trays and every precaution is taken to put in only the fruit that will make Mrs. Housewife happy. A Niagara grader is Erickson's choice for this operation and he has it set up so that he can take off six sizes for the various count packs.

Annual production of Montmorency cherries on Horseshoe Bay Farms averages between 300,000 to 400,000 pounds. This average is

maintained by: 1) Planned replanting as old trees become unprofitable. 2) Careful planting and pruning. 3) Adequate fertilization. 4) Timely and thorough spray coverage.

Harvesting the 10,000 acres of cherries in Door County is a big operation and the major portion of the crop is harvested by Mexicans, Indians, Texas Mexicans, islanders from West Indies, and southern negroes. However, Erickson has always harvested his crop with about 150 boys from various parts of Wisconsin. The boys range in age from 14 to 18 years of age and are housed in a large dormitory on the premises.

All of the cherries from this orchard are processed by Fruit Growers Co-operative in Sturgeon Bay.

Managing a farm as large as Horseshoe Bay Farms is certainly a full time endeavor but Erickson manages to exert considerable effort to further the fruit industry wherever he has an opportunity. He has been an active member of Wisconsin Horticultural Society for many years and also belongs to Michigan State Horticultural Society. In addition, he has been a director of Fruit Growers Co-

He is a charter member of this group as well as a director. His leadership in the cherry field has led to many outside activities, one of which was the national chairmanship of the 1958 Cherry Pie Baking Contest.

Although Erickson is approaching the age where he is letting Howard take over many of the responsibilities, he will continue to be "young in heart" as Horseshoe Bay Farms keeps pace

of apples in production with another 20 acres approaching bearing age. Approximately 80% of the crop is McIntosh, with Red Delicious, Golden Delicious, and Cortland making up the remainder.

Dee consistently averages 400 to 500 bushels to the acre. There is no definite annual fertilizing program. Trees are fertilized according to their needs ascertained by constant inspec-



Howard puts final stamp of approval on their Bucky Badger apples before shipping.

AND TART CHERRIES



"Dee" Erickson looks over Golden Delicious apples stored with poly liners, prior to pre-packaging them in 4-pound poly bags.

operative for 10 years. Recently Erickson along with other growers in the area formed Badger State Apple Corporation for the express purpose of consolidating their apple production so that only one salesman would be responsible for moving the crop.

with the rapid changes of this age.

Another son, E. H. Erickson, known as "Dee" to all of his friends, is also an outstanding fruit producer who is showing that there is a place for the smaller orchardist. He is located in Casco, a small town on the Door Peninsula. He has only 6 acres of producing cherry trees but these are all harvested by families who come in to pick their own fruit. This has grown to a substantial business and Dee now has to rent an adjoining field for parking space on week ends. He has to find room for as many as 200 cars for customers who drive up to 120 miles to harvest his fruit. Dee will have another 9 acres of cherries coming into production in another couple of years so that he can take care of the increasing number of people he is attracting by "word of mouth" and newspaper advertising.

Dee has carried his specialization into his apple orchard and sells most of his crop in 4-pound poly bags to stores throughout Fox River Valley. At the present time there are 30 acres

tion of the orchard. However, the program includes nitrogen practically every year and phosphorus and potash as the need arises.

Dee believes in thorough spraying and accomplishes the job with the aid of a Caterpillar tractor and a Friend high pressure sprayer with a super Bes-Blo attachment.

After harvesting, the best fruit is placed in a 5000-bushel refrigerated storage and bagged during the winter for the store deliveries. Dee also uses a Niagara grader.

He feels that the successful grower must be active in organizations which are trying to improve the industry. He is vice-president of both Wisconsin Horticultural Society and Wisconsin Apple Institute.

Dee has definitely shown that there is a place for the active-thinking grower with limited acreage. However, he says, you've got to keep on your toes to produce quality fruit and you must at the same time always keep looking for better outlets for your fruit.

THE END.

State News

PENNSYLVANIA

Hort Men Withdraw

THE Pennsylvania Horticultural Society has announced its withdrawal from the Governor's Migrant Farm Labor Advisory Committee.

John Phillips, of North East, president of the society, advised Gov. Lawrence by letter that the committee had become a lobbying group rather than an advisory group and that since agriculture's opinion was not recognized by the committee, it was useless to serve. He said they had been used to secure endorsement of proposals coming from government officials, and that such functions were not within the scope of the committee.

NEW JERSEY

Heritage Heads Farm Bureau

CARLETON E. Heritage, Gloucester County fruit grower, has been elevated to the presidency of the 7000-member New Jersey Farm Bureau to complete the unexpired term of the late Herbert W. Voorhees. Heritage was vice-president.

Heritage and his brother operate a 180-acre fruit farm in Richwood, 130 acres in peaches and 30 acres in apples. He is second vice-president of National Peach Council and chairman of the New Jersey Peach Industry Committee.

Clinton D. Carlough, Allendale apple grower, was elected chairman of New Jersey Apple Industry Council at the first meeting of this new unit of the State Department of Agriculture held recently.

Other officers are vice chairman, John H. Barclay, Cranbury apple grower, and secretary, Phillip Alampi, New Jersey Secretary of Agriculture.

The nine-member council was created in June by a state law which provides for programs of marketing, research, and promotion for the New Jersey apple industry. The council's activities will be supported by a grower-paid tax on apples produced within the state, which went into effect July 1.

CALIFORNIA

Freestone Crop Is Good

AN estimate of 305,000 tons of freestone peaches in California for 1959 has been forecast by California Freestone Peach Association. Of this estimate, about 120,000 tons will be available for the processing market,

says Charles Telford, manager of the association.

The overall inventory of canned freestones is good, reports Telford. He points to Cannery League figures for June 1 which showed 868,993 cases of stock on hand as compared to 960,529 at the same time last year.

The man who saved citrus growers millions of dollars a year in frost damage is dead.

With the recent passing of Floyd D. Young, whose nightly fruit frost warnings made his radio voice one of the most familiar in the West for many years, not only the citrus industry, but the whole fruit industry of the state lost a loyal champion.

Mr. Young established the U. S. Weather Bureau's fruit frost service at Pomona in 1917 and headed it for 30 years until his retirement three years ago.

Oneto-Gotelli Co., Stockton, announce that their latest model of the cherry-cluster cutter and sizer shows great improvement over their first offering three years ago.

The new model has three rubber sorting belts leading to the cluster cutter. The cluster cutter belt is wider than in previous models and the fruit as it enters the cutter is more evenly spread. No extra workers are required to break up the clusters since so few clusters are missed by the cutter blades. Sized fruit is carried directly to lug boxes moving on five skate-wheel conveyors, and one man can handle all five lines, if necessary.

J. L. Sullivan of Yuba City was re-elected president of California Canning Peach Association and Ralph Bunje was appointed general manager for the 10th year.



NATIONAL PEACH COUNCIL ACTIVITIES PLANNED

This group of officers, and representatives of the advisory council, executive, promotions, and finance committees met in Chicago in May to plan National Peach Council activities for 1959. One of their major decisions was to retain the services of The Lora Stone Home Economics Associates of St. Louis, Mo., to develop a program of consumer education, publicity, and promotion.

Pictured in front row, left to right: A. E. Bassham, first vice-president, Arkansas; Mark Boatwright, South Carolina; Robert Rice, Colorado; Donald Borden, Michigan; Wallace Heuser, Michigan; Mark Byers, Indiana; Paul Black, South Carolina.

Second row, left to right: R. Samuel Dillon, Jr., president, Maryland; Bob Rogers, secretary, Illinois; Curt Eckert, Illinois; Carleton Heritage, second vice-president, New Jersey; Robert White, Utah; Wilbur Yates, Indiana; Bentz Kaufman, Pennsylvania; F. M. Lemmon, South Carolina.

ILLINOIS

Maturity Standards Revised

THE recently revised specifications of the Illinois Maturity Standards for Golden Delicious apples became effective July 1. Color standards for No. 1, Fancy, and Extra Fancy grades are included in the order. The color specified for each grade is the minimum degree of greenness allowed for that grade. Use of these standards is permissive rather than compulsory.

The objective of the standards is to separate the crop into grade groups with each having a relatively uniform degree of quality, and to eliminate low-quality apples.

The colors for the standards are painted on cards which may be obtained at \$1 each from the Department of Horticulture, University of Illinois, Urbana. The No. 1 and Fancy standard cards will not be sold separately as both are required to pack either grade properly.

A copy of specifications, detailed directions for use, and a list of anticipated questions and their answers will be included with each order.—Richard V. Lott, University of Illinois, Urbana.

NEW CHIEF OF FRUIT and NUT RESEARCH

Dr. Lloyd C. Cochran, formerly horticulturist in charge of USDA's citrus and subtropical production investigations, Orlando, Fla., has been named chief of the Fruit and Nut Crops Research Branch of the Agricultural Research Service, USDA. He succeeds Dr. John R. Magness who retired March 31 after almost 40 years of service. Dr. Magness will continue to advise on research problems dealing with horticulture. On July 1 he became editor of *Proceedings of the American Society for Horticultural Science*.

IOWA

College Changes Name

ON July 4, Iowa State College of Agriculture and Mechanic Arts at Ames, became known as Iowa State University of Science and Technology.

OHIO

'Mr. Apple' Bows Out

AFTER nearly a half century of service at Ohio Agricultural Experiment Station, Wooster, horticulturist and apple expert Carl W. Ellenwood retired in June.

The Washington County farmboy developed his natural bent towards fruit science under Drs. William Green and J. H. Gourley. Together with F. H. Ballou, he conducted the first organized orchard fertilization experiments, tracing the importance of nitrogen to apples. He became widely known for his studies on spraying, and especially methods of application.



C. W. Ellenwood—Mr. Apple to Ohio growers—examines a new apple variety tree, Franklin.

Ellenwood has been on the executive committee of Ohio State Horticultural Society longer than anyone in the 112-year history of the society. He was treasurer of the society for 25 years and has been its secretary and chief executive officer for the past 12 years. He plans to continue as secretary.

INDIANA

Memorial Fund

A SCHOLARSHIP fund has been established at Purdue University, in memory of C. C. Alexander, who died in an airplane accident on May 12, 1959.

Alexander was research manager of Geigy Agricultural Chemicals and an alumnus of Purdue's entomology department.

The scholarship, created at the suggestion of Alexander's friends both within and outside the chemical industry, will be the first perpetual fund of its kind at Purdue which will give preference to entomology students.

NEW MEXICO

Pioneer Retires

THE "father of New Mexico's fruit and vegetable industry," William A. Wunsch, retired in July after 31 years with New Mexico State University and 18 years as supervisor of the Fruit and Vegetable Standardization Service with the State Department of Agriculture.

AUGUST, 1959

11

FACTS ABOUT OUR FORESTS—

American Forest Products Industries reports that new wood growth in saw timber each day would make enough lumber for 15,500 new one-family frame dwellings.

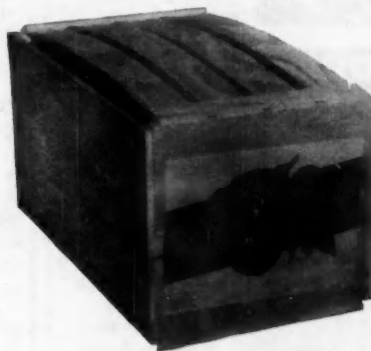
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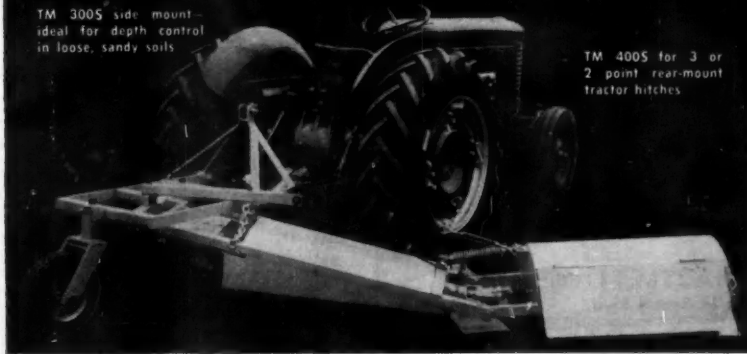
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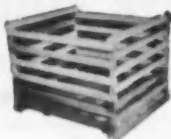
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Apples

New York's CA Regulations

THE New York State Department of Agriculture and Markets has, at the request of apple growers, initiated a program of strict regulation for controlled atmosphere apples to reduce loss through improper management, to help spread the idea and knowledge of CA storage operations, and to protect against comingling of regular refrigerated storage and CA storage fruit in order to maintain any deserved premium for controlled atmosphere apples.

An amendment to the State Agriculture and Markets Law in 1957 provides that all owners or operators of controlled atmosphere storages as well as packers and repackers of CA apples must register with the Department. This ruling applies not only to New York, but to all, regardless of state of origin, who intend to market apples labeled as "controlled atmosphere" within the state.

Each August the Commissioner of Agriculture assigns a registration number to operators of approved CA storages. This number, preceded by the letters "CA," must be shown on all containers, including consumer-type packages. In addition to the CA identification on each package, the number must appear on all shipping invoices. Repackers must include the identification number on invoices of the point of origin storage as well as their own CA registration number.

In 1957-58 there were registered with the Department 60 controlled atmosphere storages as compared with 83 this year. Although no inspection or registration fee is required, systematic records must be kept and forwarded to the Department of Agriculture and Markets during the 90-day minimum storage period.

The Department supplies all CA storage operators with storage check sheets that are submitted to the Department in three 20-day intervals after the room is sealed. The initial form lists date of sealing, room number, air component determinations, quantity stored, and the date when oxygen content was reduced to 5%. In all cases the oxygen

level must be lowered to a minimum of 5% within 20 days after the room is sealed and held for a minimum of three months.

Additional reports require a daily log of room temperature, time of testing, percentages of carbon dioxide and oxygen, capacity and lot identification. Department regulatory personnel trained in CA storage operations make periodic inspections to check daily readings and calculations.

These periodic inspections constitute one of the most important and widely approved phases of the program. The spot checks insure that operators are complying with CA regulations and provide frequent calibration checks of testing apparatus. Department inspectors also serve as a clearing house for techniques from various storage areas in New York and neighboring states.

The State's controlled atmosphere apple storage regulations require that out-of-state as well as New York CA storages be inspected periodically by Department personnel or a Department-designated representative from the state of origin.

Dr. Robert Smock, Cornell University, considered the "father of controlled atmosphere apple storage operations in the State," has recently announced that seeds from CA apples held as regulations require will not germinate in the laboratory and additional testing devices are being developed for practical use at receiving point inspections. Department of Agriculture and Markets officials expect to use the seed germination test on all questionable shipments of CA apples.

The Department has the authority to levy fines on all fraudulent sales of CA apples. In addition to removing the apples from sale as CA produce, the Department can impose fines of up to \$100 for a first and up to \$200 for a second violation.

The program of registering CA storages in New York State is still in its infancy. Regulation and inspection of controlled atmosphere storage benefits the apple industry by guiding operators toward better and more practical methods of operation.—*Irwin H. King, N.Y. State Dept. of Agriculture and Markets.*

For detailed information about New York State's CA law write: New York State Department of Agriculture and Markets, Division of Markets, Albany 1, N.Y.

CONTROLLED ATMOSPHERE STORAGE REGISTRATIONS IN NEW YORK

STATES	STORAGES		NUMBER OF ROOMS		CAPACITY (Bushels)	
	1957-58	1958-59	1957-58	1958-59	1957-58	1958-59
New York	31	41	100	139	1,257,802	1,510,672
Massachusetts	14	18	24	43	218,300	434,650
Maine	7	10	11	18	131,900	171,700
New Hampshire	5	8	6	14	55,000	122,000
Vermont	1	2	4	5	44,000	50,000
Washington	0	1	0	1	23,000	25,000
Connecticut	2	3	2	3	23,000	21,700
TOTALS	60	83	147	223	1,730,002	2,335,742



State REPORTS

WESTERN EDITION

A 'Blood Bank' of Virus-Free Trees

LOSSES caused by virus diseases of fruit trees occur in a variety of ways. For nurserymen the losses occur as poor bud stands, poor growth, and low grades, while for the orchardists loss of yield, fruit quality, and even trees are possibilities. Scientists engaged in fruit research may have their research rendered valueless by using diseased trees for experimentation.

The viruses which cause these diseases are minute, infectious particles so tiny that they cannot be seen with an ordinary microscope. In fact their presence is usually determined only by the diseases they produce.

The exact cause of virus diseases of plants was not discovered until relatively recently, although in 1888 E. F. Smith demonstrated that healthy peach trees could "catch" peach yellows from a diseased one. From that time until the present, over 50 distinct virus diseases of stone fruits (peach, cherry, plum, prune, apricot, and almond) alone have been described.

Fruit trees become infected in the field primarily by disease carrying insects. Perhaps, however, the most important means of overall increase of infected trees occurs during propagation. Thus diseased budwood on healthy rootstocks will produce a diseased tree, as will healthy budwood on a diseased rootstock.

Until fairly recently it was almost impossible to find healthy trees of some of the most common varieties such as Bing and Lambert sweet cherries and Lovell peach. This may surprise some growers as their trees may seem to be superior in performance and because they probably never have seen a really healthy tree. Many state agencies now aid nurserymen in the selection of healthy materials for use

in propagation, and most leading nurserymen use them exclusively.

Around 1942 a number of plant pathologists recognized the need for some sort of repository from which virus-free seed and budwood of deciduous fruit trees could be obtained for research purposes. This would accomplish two things: first, the material from the repository would be free from virus diseases and second, scientists throughout the country could use the same strain of a variety for their research. Diseased trees used for research will confuse the results obtained, and also different strains of a single variety may react differently to the same disease. One important feature of such a project is that it can handle more varieties and test them more thoroughly than could any single state agency.

On July 1, 1955, the Interregional Research Project (IR-2) was initiated. The activities of the project are carried on in two locations. The headquarters as well as the facilities for determining virus freedom of trees are located at the Irrigation Experiment Station at Prosser, Wash. The isolated irrigated plots where virus disease-free trees will be maintained for budwood and seed sources are in the desert near Moxee, Wash.

Budwood of superior strains of apparently healthy stone fruit varieties is obtained from scientists throughout the country. Trees are propagated from this budwood on appropriate healthy rootstocks in a

screenhouse at Prosser. After a full year's growth, budwood is taken from these trees and budded into three each of 11 virus-detecting hosts or a total of 33 trees growing in the field. These indicators will detect practically all known stone fruit viruses.

Frequently a virus can be so severe in one species or variety of tree that it may even kill that tree, but on the other hand in another species or variety, that same virus may be masked or undetectable by visual observation. Because either kind of tree is equally important as a source for spread of viruses to susceptible trees, it is essential to have all trees free from all viruses.

The principle of this testing is based on transmitting the virus from a tree in which its presence is masked to one in which it will cause characteristic and distinct symptoms. Budding or grafting a portion of the diseased host to the healthy indicators is the only practical means of transmission.

These indicator plants are then observed for at least two years to make certain that the tree under test is virus free. If it is found to be virus infected it is destroyed because there is a zero tolerance for virus in the repository. If it is virus free, the original tree is re-propagated and two of such trees are planted in an isolated site in the desert where there is very little chance of becoming infected.

The original virus-free tree remains in a screenhouse throughout its lifetime as a further precaution against

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You need a BATH! YES, A WORLD- FAMOUS HOT SPRINGS THERMAL BATH

- If you're healthy, you'll probably live longer because as it's said, "an ounce of prevention is worth a pound of cure." If you're nervous, tired, rundown or stiff from rheumatism and arthritis, you can find relief as thousands of others have. You'll
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Hot Springs only
year 'round temperature
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separate pool for
the kiddies.

virus infection of the clone. It is from the trees in the isolated plots that budwood and seed will be distributed to research workers who in turn will release it to industry.

The first isolated plantings will be made in the spring of 1960. The apparent delay was necessary because it takes about five years to complete the cycle from obtaining the original budwood until the isolated plantings



Paul R. Fridlund examines sweet cherry trees used to detect virus diseases in stone fruits.

are large enough for budwood distribution.

Apples and pears are scheduled to become part of the repository, but no work has been done with them as yet.

The IR-2 project is truly inter-regional in scope and activity, and its objectives and interests are no more involved with the state of Washington than with any other state. In addition, the IR-2 activities are not meant to supersede the efforts of the states themselves, but rather they are designed to aid and supplement these activities.—Paul R. Fridlund, Irrigation Exp. Sta. Prosser, Wash.

Piece Work Pear Picking

ALMOST without exception, pear pickers in the Medford district of Oregon are paid by the box.

According to John Patton, manager of the Medford office of Oregon State Employment Service, the rate is established annually and is calculated to return to the average picker the equivalent of other orchard work. Since most pickers tend to exceed this comparative figure, the piece work incentive is very popular.

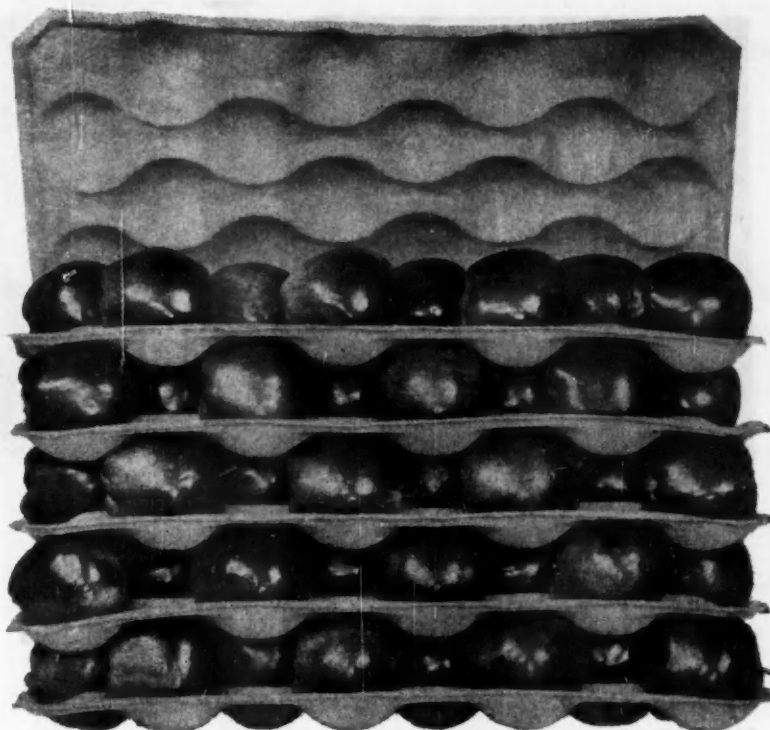
The rate per box may vary slightly, with a higher rate paid on varieties which are harder to pick or which require greater care in handling. Adjustments in rate per box are often made on the spot in areas where picking is poor.

In rare instances an hourly rate may be used in the picking of pears. This method, however, applies almost exclusively in peach picking in this district due to the extra care required in handling peaches. About 1500 acres of peaches are harvested in this area compared with 10,000 acres of pears. About 2250 pickers and orchard workers are employed during the pear harvest season.—Russ Jamison.

AMERICAN FRUIT GROWER

EXCLUSIVE FEATURES

- Free and unrestricted air flow over and through the pack assures rapid cooling.
- Easy lifting of filled trays from container.
- Built-in lifting strength without sacrifice of needed flexibility.
- Shock absorbing action in all directions.



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FRIDAY Spring Cushion FRUIT TRAY



*The symbol of perfect fruit protection
from grower to consumer.*

Here is a completely new and revolutionary mechanical principle for fruit trays, developed through years of experience and devotion to the best interests of the fruit industries by the original fruit tray manufacturer, FRIDAY PACK COMPANY.

The new Friday Spring Cushion tray provides a unique spring-supported hammock for each apple. This two-sided tray is designed with a double function; it not only fully supports the fruit in the layer it holds, but also fits evenly upon the apples in the layer beneath. Each apple is held firmly, but apart, in its own measured soft fiber cup, eliminating friction and bruising. Their exclusive, unique design and structure equally protects long or round apples. Your fruit will arrive at the market in an appealing "orchard-picked" condition.

By *certified tests*, no other fruit tray approaches the performance of this new FRIDAY SPRING CUSHION TRAY. Here is the fruit tray of the future.

The design and structure of these NEW FRIDAY SPRING CUSHION TRAYS make them equally perfect for use in hand packing or in automatic machine packing, and they are likewise suitable for use in either the fiber or wooden container.

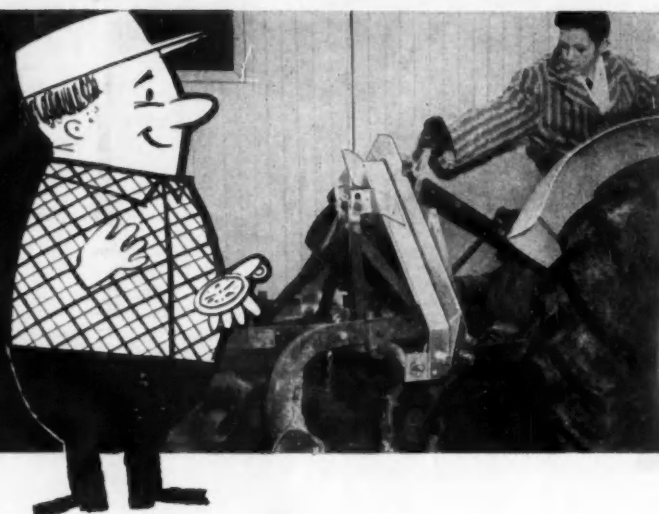
For complete details and instructions, write direct:

FRIDAY PACK COMPANY

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Friday Pack Company is affiliated with Pacific Pulp Molding Company, and together they are the originators and exclusive manufacturers of Friday Cushion-Pak and Friday Spring Cushion fruit trays.

Switch IMPLEMENTS in Seconds



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AUTOMATIC

INSTA-HITCH

For All Three-Point and Tongued Equipment

Here's the first automatic tractor hitch that hooks up any three-point or tongued implement in seconds . . . and without leaving the tractor seat. Equipment can be changed just as fast.

Pays For Itself

Insta-Hitch will pay for itself quickly in labor savings and increased efficiency. It's safer, too . . . no smashed fingers or toes grappling with heavy bars, bolts and jacks.

**Cuts Costly
Time and Work
Hooking Up**

**Plow
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The hitch features a triangular unit which bolts onto the three hitching points of the tractor. Matching couplings attach to the implements.

To hook up, merely back up until protruding hook on tractor coupling engages matching unit on implement.

Raise tractor hydraulic arms, push locking lever . . . and drive away.



R. M. WADE & CO.
Portland, Oregon

WESTERN MACHINERY CO.
Salt Lake City

Prepackaging McIntosh

THE cell-insert polyethylene bag and the molded pulpboard tray appear promising in providing a low cost, attractive package for merchandising McIntosh apples, a variety that is easily damaged when jumble-packed in polyethylene bags.

These two packages and numerous others were included in a study made by Maine Agricultural Experiment Station, Orono, and discussed in Miscellaneous Report 81, entitled, *The cost of Packaging Maine McIntosh Apples in consumer units.*

IAA Convention Report

THE mid-July apple crop report of the International Apple Association released at its annual meeting in Seattle July 20-22 forecasts 121 million bushels; 38.9 million from the Pacific Coast, 17% less than last year and 82.4 million from East and Midwest, a 3% increase over 1958.

Opinion on how to market this crop at a profit stressed the importance of condition control programs so that the consumer can buy only cold, crisp, juicy apples.

Henry W. Miller of Paw Paw, W. Va., suggested that condition requirements be written into grade laws. Of all the fruits and vegetables, he said, apples and pears are the only ones with no condition requirements.

Harold Copple of Northwest Wholesale Co., Wenatchee, told how Northwest growers are attacking quality problems by: 1) planting red sports which make possible good color as well as good quality; 2) better nitrogen fertilization practices in orchards; 3) more spot picking; 4) packing house pools based on condition as well as grade and size; 5) increased and more efficient cold storage facilities; 6) faster movement of fruit out of orchards through bulk handling.

How supermarkets sell apples and the value of well-planned promotional campaigns by growers on the national and state levels were emphasized.

CA apple storage and the consolidation of National Apple Institute with IAA were also discussed.

CA storage of apples has expanded from 250,000 bushels in 1952 to 3.2 million bushels in 1958, more than ten-fold in six years.

The IAA and NAI merger plan provides for two divisions, one composed of state and regional organizations will be the grower-shipper division, and the second, made up of IAA individual membership, will become the industry division.

Lem Brown, Wenatchee, is the new president succeeding John Hauser, Biglerville, Pa.—R. T. Meister.

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OFFERS THE FIRST COMPLETELY RUST PROOF, ROT PROOF, MAINTENANCE FREE HYDROCOOLER

- Amazing fibreglas interior—cannot leak, rust rot or deteriorate
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When your crop is just about ready for market, don't risk late season insect damage! Save it with Orchard Brand Phosdrin!

You can apply Orchard Brand Phosdrin right up to 1 day before harvest on such vegetables as corn, beans, broccoli, cabbage, peas, tomatoes, and such fruits as apples, peaches, pears, plums, and strawberries; 2 and 3 days before harvest on many others. You get excellent control . . . vital, last-minute protection against insect damage that could cut heavily into your profits.

Phosdrin has been thoroughly tested and enthusiastically

accepted by agricultural authorities and commercial growers. It's powerful . . . kills many insect pests almost immediately . . . leaves no objectionable taste, odor or harmful residue when used as directed.

Remember — you can use Orchard Brand Phosdrin all through the growing season right up to a day or so before harvest. So be sure. See your Orchard Brand dealer now for Phosdrin and for all your agricultural chemical needs.



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The right product
for
every pest
problem



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Stone Fruit

Quality Fruit Packs

HIGH quality fruit, modern packing methods, and attractive packages are three reasons why Brentwood Irrigated Farms in the Stockton area of California have been among top-flight shippers ever since refrigerated rail cars came into being. Brentwood, managed by Charles B. Weeks, Sr., is one of the largest and oldest grower-shipper organizations on the West Coast, producing an annual average of 600 cars of fruits and vegetables from its 1800 acres.



Here are four types of fruit pack. Left to right: Sanger lugs, paper-wrapped, waxed paper cups; Lindley fillers, Panta-Pak trays.

Quality is given first consideration in soft fruit packaging and has paid off over the years, according to Hugh Peterson, packing house manager, by topping the market with premium packs of peaches, nectarines, and plums. Standard nailed wooden boxes and crates have been first choice for shipping containers, with the style and packing methods varying with the commodity.

Plums are generally packed in the 4-basket crate which holds four wood-veneer, metal-rimmed baskets, or the Brentwood lug (inside dimensions, $4\frac{5}{8} \times 12\frac{1}{2} \times 16\frac{1}{6}$) which holds 25 pounds, the top layer face-packed and the remainder volume filled.



Fruit goes to the packing line on moving belt. Wooden lugs with name imprinted on side are cup-packed in two layers. Ends are labeled.

Peaches are cup-packed, tray-packed, or Lindley-filled-packed in two layers using the Sanger lug (inside dimensions $5\frac{1}{4} \times 13\frac{1}{2} \times 16\frac{1}{8}$). If the California peach box (inside dimensions $4\frac{1}{2} \times 11\frac{1}{2} \times 16\frac{1}{8}$) is used, the fruit is paper-wrapped. Elberta and other small peach varieties and Quetta nectarines go into the peach box while Rio Oso Gem, J. H. Hale, and Royal Hale peaches, and Late Le Grand nectarines are packed in the Sanger lug.

The Lindley filler, which is a chip-board separator like that used in an egg crate, has been used for packing nectarines, together with some packs in waxed paper cups. Last year, Peterson said, his company used the newly-developed Panta-Pak molded trays of plastic film with considerable success. They were well received at terminal markets, fruit quality was good upon arrival, and the packages remained in the premium class.

Fruit arrives at the packing plant in palletized loads of picking boxes on roller-bed trucks, pallet loads being rolled directly to the packing lines. About 125 persons are employed in the packing house at peak season. The plant has six cool rooms with a total capacity of 15 cars.

In addition to fruit, the company packs annually some 400 cars of row



Smileage on the farm

9 **OUT** **OF** **10**

users say:

B.F. Goodrich farm tires are the best I've ever used!

(Based on a survey of farmers all over the country)

To find out the kind of service B.F. Goodrich farm tires give, we asked the men who have used them (photos opposite). 9 out of 10 of them reported B.F. Goodrich tires are the *best* they've ever used! They said that for all-around performance, you can't beat B.F. Goodrich farm tires—and for money-saving service, you can't

beat B.F. Goodrich Smileage dealers. But don't take our word—find out for yourself. Ask *your* neighbors. Then see your nearby B.F. Goodrich Smileage dealer who is listed under Tires in the Yellow Pages of your phone book. *The B.F. Goodrich Company, Akron 18, Ohio.*

crops such as tomatoes and corn with the same eye toward top quality and a premium package. Produce from Brentwood Irrigated Farms which is not sold to the fresh market goes to nearby canneries and processing plants.

Firm-Ripe Preferred

CONSUMERS like prepacked tree-ripened peaches, and apparently are willing to pay a premium for them. This information is contained in a report by USDA researchers entitled, *Prepackaging Firm-Ripe Peaches*, a free copy of which may be obtained from: Marketing Information Division, U. S. Department of Agriculture, Washington 25, D. C. Ask for AMS-312.

Bulk Handling Clings

UNIVERSITY of California researchers have been working to produce bulk handling equipment that will preserve fruit quality and still allow the better efficiency that is possible with transporting peaches in large bins or trailers rather than in lug boxes.

The money savings possible in bulk handling, says Michael O'Brien, agricultural engineer at the university, results because it takes only two bulk bins to carry a ton of fruit compared with 48 lug boxes.



New bins in use at bulk receiving station of Tri-Valley cannery, Modesto, Calif.

The grower who uses bins can cut labor costs for handling fruit in the orchard after picking by using a fork-lift truck to load the bins, instead of manpower to load small lug boxes. The canner will save money in hauling because with bins he transports more fruit and less wood.

PRECAUTION URGED

THE Produce Packaging Association has become sufficiently alarmed by the tragic deaths of chil-

dren caused by plastic bag suffocation to issue reminders to all its members.

Plastic bags for fresh fruits and vegetables already have perforations in them, and most of the bags are too small for a child to pull over his head. However, all members of the Association have been cautioned as to the potential danger of large bags left within reach of children. Packagers have been urged to locate perforations over the entire surface of the bags.



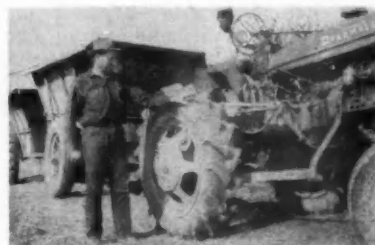
Charles Clapp, Greensboro, N. C., writes, "B.F. Goodrich Power-Grip tires give me the traction I want—something I have not found in other tires."



Don P. Slitt uses over 100 B.F. Goodrich tires on his Williamsville, Ill., farm—reports Super Hi-Clear tractor tires give 7 years' service before retreading!



Orville Martin, Hagerstown, Md., praises the service he gets from his dealer on the B.F. Goodrich tires on his tractors, trucks, wagons and baler.



Gillis Breux, cane-farmer of Raceland, La., uses B.F. Goodrich Special Service tractor tires, finds they outpull any other make and wear longer too.



Uno Freed, Essex, Iowa, writes, "Power-Grip traction pulls me through sloppy fields. I think BFG tires are the most dependable you can buy."



Art Dobson, Chandler, Ariz., finds dealer service an important reason for using B.F. Goodrich tires, says, "Power-Grip tires wear longer."

B.F. Goodrich *farm tires*

LIQUIDATION SALE Apple and Melon Shooks

Carloads Available, subject to prior sale. Prices are f.o.b. Spokane, Washington. Northwest Apple Sets, Ends and Sides \$21.07 per C Sets. #4—melon, complete with 12 x 12 Nailed Ends, \$35.35 per C Shooks. Wt. — apple sets, 5.3 lbs. Wt. — melon, complete 6.4 lbs.

Brewer Pine Box Co.

P.O. Box 1715
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SCARE-AWAY

Loudest & most reliable scare device available. Costs 15¢ per day to operate. Has adjustable gas regulator. Operates on carbide or acetylene. Low retail cost. Dealer inquiries invited.

REED-JOSEPH COMPANY
Greenville, Miss.



APPEACH Deluxe

Rigid frame, canvas covered bucket designed especially for peaches and easily bruised apples. Excellent for other fruits. Stiff front stays protect against ladder. Top large enough for picker to lay fruit in carefully. Bottom is quick-release type.

TYSON ORCHARD SERVICE
Flora Dale, Biglerville, Pa.

FOR OUR READERS

Because Roadside Stand Sales are becoming more important and profitable, we would like to help you by making Roadside Stand Signs available at the lowest cost. Printed on waterproof heavy board—22" x 28" in eye catching Orange Day Glow on a dark green background.

STOP

"BUY THE BEST"

FARM FRESH PRODUCE

Also available are individual fruit and vegetable strips—28" long x 5" wide—which may be attached to the big sign.

PEACHES

SWEET CORN

Big Two Color Sign \$3.00 apiece or two signs for \$5.00. Strips 50¢ apiece or 10 for \$3.50.

Roadside Stand Department
AMERICAN FRUIT GROWER
PUBLISHING COMPANY
Willoughby, Ohio

Marketing

Packaging for Roadside Sales

THINK of your packages as silent salesmen, then ask yourself: "Are they really doing an effective selling job? Do they minimize the work involved in serving customers?"

These are the characteristics of good roadside market packages: 1) They unitize, or hold together, without physical damage, the fruits and vegetables which are small in size. 2) They permit advance preparation of the most popular retail size units. 3) They make the products look as appealing as possible without misrepresenting them. 4) They help maintain freshness. 5) They reduce handling costs.

Many markets display in metal or veneer baskets that range in size from one quart to one bushel. Due to the high cost per unit for these containers, purchases frequently are transferred to paper bags so that the baskets can be retained at the market and re-used. When computing the cost of this packaging method, for comparison with other methods, the cost of the paper bags and the extra handling must be taken into account along with the cost of using the display baskets.

Veneer baskets look cleaner and neater and will show off their contents to better advantage when dyed. The standard dark purple dye, used for trim on veneer shipping baskets, is ideal for coloring roadside market display baskets in their entirety. The purple color provides an excellent contrast for red apples, peaches, light-skinned potatoes, and most other commodities. The contrast makes the appealing natural colors of the produce stand out, and the color holds up well with re-use of the container.

Attractive corrugated boxes are available with stock designs especially for roadside selling. Either wire or wooden handles can be used. Sizes range from about 2 quarts to 16 quarts, and costs vary from about 5 to 35 cents each, depending on size, design, and quantity purchased. Corrugated tub-style baskets as well as the more standard rectangular boxes with handles are being used.

At holiday times and when summertime tourists are visiting friends, gift containers of fruit are popular. Special gift boxes that colorfully highlight fruits and delicacies are sold by several corrugated container companies. Flat gift boxes designed for shipping are readily obtainable as well.

Thin folding cardboard baskets with handy paper handles come in a bright purple color with capacities of from 2 to 5 pounds. These are self-locking baskets that can be assembled readily. The cost of 2 to 5 cents each is low enough to make them feasible for berries, small vegetables, and smaller fruit packs.

Transparent film bags are not widely used at farm roadside markets for two reasons. One is that film-packaged perishables demand refrigeration. Since film curtails air movement, refrigeration must slow down the respiration rate of the produce or it will age too quickly. The second reason is that less elaborate packaging is more consistent with direct selling from farm to consumer.

Kraft bags with handles have proven very satisfactory for roadside use. Widely assorted sizes are available in natural color, purple, green, white, black, or yellow. Sizes range from a small white bag just right for 2 pounds of purple grapes to a bag for merchandising a half-bushel of apples or potatoes. Most prices are in the 1- to 4½-cent range. A major advantage is their suitability for self-service selling.

One novel idea is to provide these empty bags (of an appropriate size) beside a big, loose display of apples, with the sign reading, "All You Can Bag for 45¢." Few people can resist the temptation to try packing a bag with an extra apple or two, and the price is based on the assumption that they will succeed in getting the extra apples in!

Many of these self-service containers are in the long run cheaper than re-usable ones. They save time by eliminating the need to transfer each sale from a basket to a bag; they tend to increase impulse sales because they are all ready to go; and they minimize physical damage. Cardboard, chipboard, and kraft bags can be rubber-stamped or printed with your name and an advertising message that will help strangers remember the source of your superior quality products.

It is good practice to offer containers of several sizes for the popular items. Some customers will want only a small supply for immediate use; others will shop for large quantities to be canned, frozen or made into jelly.

There are dozens of good packaging possibilities for any roadside market. It pays to consider them all before selecting the ones you will feature. You must have good packaging to do justice to good fruits and vegetables.—Robert L. Bull, Ext. Marketing Spec., University of Delaware, Newark.

NEW PACKAGES

(Continued from page 7)

outside dimensions as the regular tray pack. The tray is divided and arranged so that it can be cut into three consumer units at the retail store. Four tray sizes were developed that would accommodate apples ranging from the 138 to the 72 standard box sizes.

About 40 cars of Golden Delicious and Red Delicious were marketed commercially in this package during the test program.

Each of the three sections of the Triplett tray now being evaluated holds two rows of four apples each. The individual trays can be over-wrapped with film in the retail store, or they may be banded together into a "Family-Pak."

The Family-Pak is formed when the cut-apart Triplett trays are stacked either two or three high. They are then wrapped with a band of polyester film which has two printed carrying handles glued to it. The two handles are stapled tightly together to complete the package.

This makes a strong, compact consumer unit which can hold either 16 apples in two layers, or 24 apples in three layers. The 24-apple unit was devised as a means of promoting larger unit sales, particularly for the less highly colored apples which may be more moderately priced.

In a retail packaging operation, use of the Triplett tray can save the retailer 15 cents or more per box of apples because he does not need to purchase special trays or "boats." Costs of packing apples in the Triplett trays should be no higher than in the standard tray pack, and the new trays are adaptable for either hand packing or machine packing.

Cherries: In co-operation with a container manufacturer, we are de-

veloping a new consumer package of semi-rigid plastic material which will give complete visibility and also will enable face-packing of the cherries in order to command maximum sales appeal.

We are also evaluating the use of 20-pound loose-packed boxes for cherries in order to achieve maximum economy in marketing. Loose packing of cherries saves about 3½ cents a pound compared with packing them in the conventional double-row-face-pack box. However, this requires that the retailer perform the packaging operation or sell them in bulk.

Grapes: Several types of consumer packages for prepackaging grapes at the production point in California have been evaluated during the last three years. These include: An acetate-film window carton with stapled recessed bottom; an acetate film window carton with self-locking bottom; a tray overwrapped with cellophane or cellulose acetate; an acetate-film window carton with self-locking end; an acetate-film window carton with cover self-locking on side; a polyester-film window carton with self-locking end; a folding carton basket; and plastic trays usually overwrapped with polyethylene perforated in a mesh design.

We receive many inquiries on how to package eastern grapes and undoubtedly packages developed for California table grapes might not be suitable for the Michigan or New York commercial grape industry. It is more likely that some type of open-top container, and perhaps a larger unit, would be preferable for use in these two states.

Peaches: There is a widespread desire on the part of many retailers to receive peaches in a riper condition. We have not been completely successful in developing consumer packages for riper peaches in the East which

are cheap enough and fast enough to pack and also command favorable trade and consumer acceptance.

Pears: Considerable progress was made during the 1958-59 season in packaging pears in an open pyramid-type pulpboard tray. Five of these trays were packed in a layer and three layers were packed in a fiberboard master shipping container. They were packed at harvest last September in Washington state and were shipped to eastern markets during the 1958-59 pear season.

Sheets of polyethylene were placed between each two layers of pears to prevent friction of the trays against the pears. One or two combination paperwood-excelsior pads were placed on top of the layer, to serve as a cushioning material. Two-piece full-telescope boxes were used for master containers. The pears arrived in the eastern terminal markets in excellent condition.

In a controlled retail sales experiment conducted in 10 retail food stores, prepackaged pears outsold bulk pears by nearly two to one. The retailers completed the consumer package by overwrapping the trays with cellophane.

This type of package offers a great advantage in that the shipper is not doing all of the prepackaging himself, since the retailer completes the package. This gives the retailer an opportunity to grade out any decayed or defective pears before packaging.

Plums: The 2-pound window carton with a recessed stapled bottom has proved quite satisfactory for shipping fresh plums from California to eastern markets because this package prevents the plums from jostling about in transit.

Only good quality fruit, or that properly identified on the package as second-grade quality, should be prepackaged. THE END.



Introducing the New

Economy Bagger

Average Growers Report Savings Up to \$2,000.00 Per Year on Containers

FEATURES:

1. Eliminates Bruising.
2. Bags 100 Bu. per hour.
3. Bags Bushels or ½ Bu.
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5. All sponge rubber padded, heavy duty canvas covered.
6. Customers prefer bags for loading into cars.



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blazes new trail
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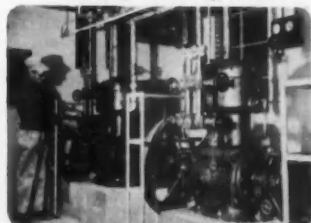


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Prestin coils hold higher humidity
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Frick compressors have a long inexpensive operating life.

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Saves Time — Reduces Bruising
Heavy canvas over rigid frame protects fruit. Empties quickly through bottom. Especially for peaches and easily bruised apples. Write for folder.

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Get estimates now: **WRITE . . .**

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DEPENDABLE REFRIGERATION SINCE 1882
WAYNESBORO, PENNA., U. S. A.

NEW FOR YOU

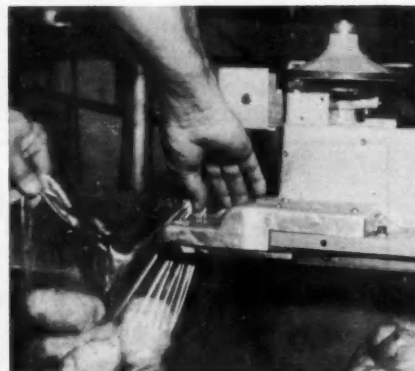
Packaging Guide

ONE of the best booklets I have read on packaging is entitled *How to Pack It*. By reading this booklet any grower can easily figure out what type of corrugated box will do the best job for his own packaging problems. The booklet is well illustrated and should be on every grower's desk. If you will write Dick Aldrich at Hinde and Dauch Paper Company, 5937 Decatur St., Sandusky, Ohio, he'll be glad to give you all the facts.



Plastic Pipe and Wire Conduit

We are building a model grower house, and, to do the best job possible, we have given a lot of thought to the materials used. It was necessary to run plastic pipe 300 feet from the well to the house and to run No. 10 wire conduit in the same trench. After checking the specifications of other pipe manufacturers and wire conduit companies, it became quite clear that Triangle conduit and cable was by far our best buy. I thought you would like to have this information. Should you need cable or pipe, why not write Carl Menger, Triangle Conduit and Cable Co., New Brunswick, N. J.

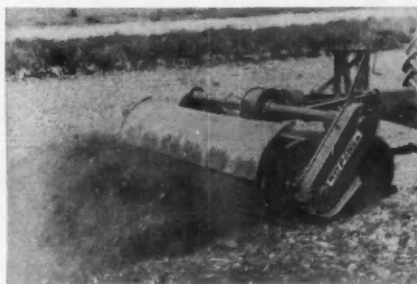


Sixty Bags A Minute

A new bag-closing machine which I saw operate last week could be your answer to prepackaging. The machine has a low initial cost, and it provides the lowest cost per 1000 bags closed. Low maintenance cost makes this machine ideal for the commercial grower. Why not write Reg Kiefer at Trescott Co., Inc., Box F, Fairport, N. Y., for details.

AMERICAN FRUIT GROWER

- Speedy Bag Closer
- Molded Paper Container



Ideal Orchard Tool

About two weeks ago a machine was demonstrated to us in our experimental orchards which every grower should know about. Known as the Agrotiller, the implement fits any standard tractor. Driven by power take-off, the machine tills the orchard floor, leaving a perfect seed-bed for cover crops or for maintaining clean cultivation. The machine reduces compaction and increases the soil's ability to retain moisture. Made in England, the Agrotiller is heavily constructed, and the 3-point hitch models are offset, another plus factor for orchard tillage. The machine grinds up prunings and returns them to the soil, which adds to orchard fertility. We were so impressed with the machine, after seeing it operate, that we purchased one for our orchard. You will want full details on the Agrotiller. Write Frank Bauer, Winpower Mfg. Co., Newton, Iowa.



Pyramid Pak

It's hard to make a package which will show fruit to its best natural advantage and still give it optimum protection. However, this has been done, and the new pack known as Pyramid Pak is being manufactured by an old friend of many growers, the Keyes Fibre Company, AF8, Waterville, Maine. Why not write for details? The purple colored container is most attractive.

AUGUST, 1959

SHAKE A LIMB EVERY 20 SECONDS

New GOULD Hydraulic Boom SHAKER

Only the New GOULD Hydraulic Boom can shake a limb every 20 seconds (or better) all day long with only one man! Why? Because it's the simplest, smoothest, easiest, fastest-to-operate tree shaker ever built. Brand new! The cleanly designed box boom contains everything . . . no exposed pipes or hoses at the claw. This is the only completely hydraulic boom shaker on the market. Principle proved by 10 years in use! Selective shake . . . speed and hardness controlled by tractor motor speed. Extremely easy on the tractor. Boom lengths from 16 ft. to 22 ft. in front of tractor wheels for walnuts, almonds, filberts, pecans, prunes, olives, cherries, plums, etc.



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Trade Mark

featuring "BEAR HUG" Claw

This is a completely new, radically different type of claw that is superior to anything you have ever used or seen before. The outstanding feature of this claw is that it allows the operator to drive straight into the limb he wishes to shake. Another advantage of the "Bear Hug" claw is the extreme gentleness with which it handles your trees. It has a new large area swivel-type pad which grips tight without sliding to prevent limb damage.

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Fits any make
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Handles Either
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IDEAL TOOL FOR ORCHARD USE

- Load capacity 2500 pounds 24 inches from face of fork to center of load.
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GROWERS OPPORTUNITY PAGE

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AGENTS WANTED: NOW CALLING ON Growers, Nursery and Greenhouse men, Landscapers, etc. Quality line of garden tools and knives. Good commissions. GIFTSEARCHERS, P. O. Box 11603, Mt. Lebanon 28, Pa.

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BOOKS

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KILL SUBMERSED WATER WEEDS which foul up motor propellers, tangle fishing gear and choke irrigation ditches with R-H Granular Weed Rhap. Inexpensive, easy to use, sure results. For details write REASOR-HILL CORPORATION, Box 36AF, Jacksonville, Arkansas.

KILL BRUSH AT LOW COST WITH AMAZ-ing R-H Brush Rhap. Will not injure grasses, grains, cattle or other animals. See your dealer or write REASOR-HILL CORPORATION, Box 36AF, Jacksonville, Arkansas.

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EARN MONEY AT HOME RAISING FISH-worms for us! We buy your crop! Inquire: OAK-HAVEN-25, Cedar Hill, Texas.

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MODERN AUTOMATIC ELECTRIC CIDER presses for roadside stands and small orchardmen. Presses 10 gallon to 15,000 gallon capacity. Everything for the cider making, ball bearing graters, press racks, cloths, packing, valves, labels, filters, pasteurizers, bottling equipment. Write for supply catalogue. W. G. RUNKLES' MACHINERY CO., 185 Oakland St., Trenton 8, N.J.

SANITARY CIDER MAKING EQUIPMENT. Write for our latest catalog showing containers, fillers, cider supplies, filters, Palmer presses and parts for all mills—featuring the newest of Easy to Clean high capacity graters. ORCHARD EQUIPMENT AND SUPPLY COMPANY, Hill Street, Bristol, Connecticut.

CIDER MILL SUPPLIES: USED PRESSES, cylinder packings, hydraulic cylinders, hydraulic pumps, nylon and cotton press cloths, press racks, complete engineering service available along with all types of used processing equipment for apple juice industry. Write for our prices. DAY EQUIPMENT CORPORATION, 118 W. Lafayette St., Goshen, Indiana. Ph. 3-1692.

CIDER PRESS, 36 INCH MT. GILEAD. EX-cellent condition. Also stainless steel barrels and filter. JACK ALLEGA, El Rancho Motel, Sedalia, Missouri.

17" NEW JERSEY CIDER PRESS. PERFECT condition. Only used to grind 400 gallon cider. Motors for electric grinder, press and cider pump, 2 set racks and cloth. F. A. SPENCE, Elizabeth City, N.C.

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SENSATIONAL GARDEN TRACTOR. HOES between plants and rows, including strawberries. Eliminates hand hoeing. Standard in size, yet entirely different. Patent 2742840. Also tilla. Fantastic offer to first few inquiries. AUTO HOE, DePerre 8, Wisconsin.

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FRUIT GRADERS—GOOD USED AT BAR-gain prices. Inquire GREGORYS ORCHARD SUPPLY CO., Alma, Ill.

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ONE MYERS AIR BLAST SILVERAIR TURN sprayer—one man operation. Pump 70 GPM. Tank 500 gals. Good as new. Must be seen to be appreciated. Make us an offer. DECOTONE PRODUCTS, Fitchburg Paper Co., Fitchburg, Mass.

PRACTICALLY NEW FRIEND 16" APPLE grader with brusher and extras for \$650. Orchard sold. Details, write FRANK WALCH, Bowker Street, Brunswick, Maine.

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FOR SALE: ONE TRESCOTT APPLE Brusher and Grader, Model #106, with picking and sorting belts for 2 1/4, 2 3/4, 2 3/8 and 3 inch sizes. Also two sizes of B grade and ciders. In first class condition. UPLAND FARMS, Peterborough, N.H.

USED APPLE GRADING MACHINE FOR sale. 800 bushel capacity. Any reasonable offer considered. SHERILL ORCHARDS, Mt. Carmel, Ill.

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ORCHARD MANAGER IN CHARGE OF production wanted for large Eastern apple orchard. Agricultural background and orchard experience necessary. Agricultural College work helpful. Leadership and good management most important. A working knowledge of refrigeration and pack-house management helpful. Salary and bonus comparable to qualifications with every opportunity for advancement. Our organization knows of this opening. Reply giving all possible information and references to AMERICAN FRUIT GROWER, Box 198, Willoughby, Ohio.

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ARE YOU INTERESTED IN OFFERS FROM reliable manufacturers for your invention? Patented, unpatented. HARVEY ASSOCIATES, Dept. 7A, Cambridge, Maryland.

MISCELLANEOUS

BANANA PLANT. GROWS ANYWHERE—indoors, outdoors. \$1.50. Postpaid. SOPHIA SULEN, Ladylake, Fla.

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DRESSES 24¢; SHOES 39¢; MEN'S SUITS \$4.95; Trousers \$1.20. Better used clothing. Free catalog. TRANSWORLD 164-CA Christopher, Brooklyn 12, N.Y.

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LEARN PROFESSIONAL CAKE DECORAT-ing. Details free. DECO-SECRETS, Venice 33, Cal. SEW APRONS AT HOME FOR STORES. NO charge for material to fill orders. In our fifth successful year. Write: ADCO MFG. CO., Bastrop 8, Louisiana.

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IN HILLSDALE COUNTY, MICHIGAN, 83 acre farm, 26 acres of thrifty producing apple trees. A pleasant home. JASON CONVERSE, Alpena, Michigan.

FOR SEMI RETIREMENT 20 ACRES, 13 acres cherries, 9 years old, excellent retail market, a fine home and young orchard, with equipment. \$35,000. C. S. NUNEMAKER, R. D. 1, Duncannon, Pa.

120-ACRE FARM—60 ACRES IN YOUNG fruit, mostly apples, balance farming land. Large packing house fully equipped with grader. Six-room old log frame house with all the finest of modern conveniences, new addition well insulated. Dish washer, Timken oil heat and hardwood floors throughout. Fireplace in living room, powder room and utility all on first floor. Modern bath, 3 bedrooms and ample closets on 2nd floor. Double garage. This is a very lovely house with beautiful view of our valley. Heart of the fruit belt in Franklin County. Owner, A. J. SABER, R. D. 2, Waynesboro, Penna.

APPLE ORCHARD—BEST VARIETIES. Fine location. New buildings. Convenient water. Storages. Equipment. 3,000 big, young trees. Write: ORCHARD, 214 Prentice, New Carlisle, Ohio.

150 ACRES FOR SALE. INCLUDES GRAPES, sweet and sour cherries, peaches, pears, prunes, currants, apples, refrigerated cold storage, four houses, roadside market, open land, 100 acres in fruit, mostly in bearing, stocked private lake, contact owner. WALTER FALVAY, Westfield, N.Y. Telephone Fairview 6-2970.

FOR LEASE: 150 ACRE EASTERN WASHINGTON orchard. Fully equipped. I. E. WILSON, Wawawai, Washington.

FOR SALE: 98 ACRES IN APPLES—PEARS —Cherries—211 acres in timber. High elevation and in good production of quality fruit. All necessary machinery & equipment, packing-house and storage. 25,000 bushel crop of apples will be the bonus to a quick buyer. TROUTMAN ORCHARDS, Millerstown, Perry County, Pennsylvania.

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VERY FINE CUT FERNLEAVED DOUBLE deep red Peony. HOME NURSERY, St. Ansgar, Iowa.

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RAISE ANGORA, NEW ZEALAND RABBITS on \$500 month plan. Plenty markets. Free details. WHITE'S RABBITRY, Delaware, Ohio.

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SADDLES, WESTERN & ENGLISH. SEND 10¢ for 48-page catalogue showing 76 different saddles plus all types of equipment and riding wear. Saddle dealers wanted. H. R. MILLER SADDLE CO., 5904 Prospect, Kansas City, Mo.

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AUGUST, 1959



By HENRY BAILEY STEVENS

Nostalgia for Nod-heads

THERE is something about those old apple varieties that is like an old song or a game of croquet. People still hanker for them. "Why, oh why, can't the growers give us sheep-noses, greenings with the water-cores, and the little yellow sweet-balls? Thanks for starting something," writes M. L. Redding, of Ridgway, Pa.

"Tell that schoolmate of yours to get busy with his old-time orchard," seconds Mrs. Albert Kloppenborg, of Newton, Iowa. "He'll have a good time doing it. We've just finished one —'almost' for our own eating pleasure. I've traveled all over the U. S. and found nearly every tree I want—except Haas." She furnishes the accompanying list of nurseries that can help to spur Modesto on "to new and bigger dreams."

Another Iowa enthusiast in rare varieties is the Wheelock Wilson Nursery, of Marshalltown. Mr. Wilson has built up a stock source of scion wood of about 100 old apple and 25 pear sorts as well as a good stock of propagated black and Carpathian walnuts. He will have some 30 varieties of apples ready for next spring.

"I, too, have planted the old favorites," writes Harold W. Schroeder, of Boonton, N. J., "usually one tree of each variety, some standard, some semi-dwarf, and some fully dwarf (EM VII and EM IX). The collection now includes 94 varieties of apples and about 20 varieties each of pears, plums, and peaches, tapering off through quinces, apricots, small fruits and nuts."

Let's hear from others who have gone into the antique business.

SOURCES OF OLD VARIETIES Trees

Benedict Nursery Co., 735 N.E. 87th Ave., Portland 16, Ore.
Converse Company Nursery, Amherst, N. H.
Henry Leuthardt, Port Chester, N. Y.
Tennessee Nursery, Cleveland, Tenn.
The Greening Nursery Co., Monroe, Mich.
Tualatin Valley Nurseries, Rt. 3, Box 310, Sherwood, Ore.

Sclons And Bud Stock

New York State Fruit Testing Cooperative Assn., Inc., P.O. Box 299, Geneva, N. Y.
The Pennsylvania State University, Department of Horticulture, University Park, Pa.
Worcester County Horticultural Society, 30 Elm St., Worcester, Mass.

Address your "Windfalls" contributions to Henry Bailey Stevens, AMERICAN FRUIT GROWER, Willoughby, Ohio.

DWARF APPLE TREES

Available on Malling I, II, VII, IX, Malling Merton 106, 109, 110 and 111.

DWARF PEAR TREES

budded on Old Home

We are one of the country's oldest Nurseries and the largest grower of fruit trees east of the Mississippi River. If you have a special strain or selection, we will bud on contract for you.

Write us for commercial fruit growers price list.

Kelly Bros. Nurseries, Inc.

Dept. AFG-8

Danville, N.Y.

DWARF APPLE TREES

Well-Branched

Yellow Delicious and Double Red Delicious Genuine East Malling on No. IX rootstocks. Strong, 2-yr. trees. Reasonably priced.

SEVEN DWARF'S NURSERY

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Medford, Oregon

PEACH APPLE TREES LOW AS 20c

Cherries, pears, plums, nut trees, strawberries, blueberries, dwarf fruit trees. Grapevines 10c. Shrubs, evergreens, shade trees, roses etc. up. Quality stock can't be sold lower. Write for FREE color catalog and \$3.00 FREE bonus information.

TENNESSEE NURSERY CO., BOX 4, CLEVELAND, TENNESSEE

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APRICOT • CHERRY • NECTARINE

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Comments from England

ALAS, the problems of fruit growers are universal and remarkably similar. Listen to the comments of Giles Tucker, prominent English fruit grower, arguing for a marketing board as the only way for English apple growers to save themselves. "I doubt if economic necessity or financial direction will solve the problem. I believe strongly that the sole beneficiary from the bankruptcy of English growers will be the Italians—not the specialist home grower," he says.

He continues: "The saddest part of the whole of this long-standing argument on how to put English growers on their feet to face world competition is the appalling . . . damage that Mr. M . . . and their colleagues have done to any form of producer organization. Their propaganda against marketing boards has fixed in the public mind the idea that as soon as we producers get together to defend ourselves from the wolves we are all wicked exploiters of consumers.

"Their steadfast opposition, and in some cases outright blackguarding of the existing marketing boards, is now hailed with glee by the national press, who have taken the line that growers should be kept thoroughly well divided in order that the industrial interests shall be able to drive the hardest possible bargain with horticulturists."

He concludes with the suggestions:

- 1) Keep low-grade fruit off the primary wholesale markets.
- 2) Encourage, don't force, the acceptance and use of standard grades.
- 3) Publicize the fact that apples are good but English apples are really the best.

Health from Fruits

SIR JAMES LANCASTER (1588) in the time of Elizabeth and the Spanish Armada, is credited by Dr. E. N. Todhunter, of University of Alabama, with being the discoverer of the method of defeating the dread scurvy disease caused by the lack of anti-scorbutic vitamin C.

The records reveal that "While many men were fallen sick of scurvy and could hardly handle the sayles,

the men on Lancaster's ship were in good health as he brought to sea with him certain bottles of the juice of limons."

And so the values of fruits were known long before there was a real scientific explanation of the facts. Who knows what the situation may be today? We talk about "An apple a day keeps the doctor away" and of "Fruit for health," but we do not yet know all that we sometime will know about the protective and health-giving qualities of our products.

Much research is being done in the composition and the dietetic values of fruits. We need to know a great deal more. Little by little the facts will reveal, as we all believe, that fruits constitute some of the most important products for human consumption.

Reciprocity

EARLY this spring the University of California's Citrus Experiment Station shipped 500,000 seeds to aid Florida's infested citrus groves.

The seeds were collected by a Florida scientist who hopes to produce a rootstock that can stand up against the burrowing nematode.

This pest does not kill citrus trees, but infested orchards go into a decline and do not grow enough fruit to be profitable to the grower.

Research from the project in Florida will be made available to California scientists in the event burrowing nematodes ever threaten California orchards.

Fruit Growing is Such Fun!



Fruit Talk

Italian fruit packers are said to be considering exports of fruit in bulk containers, to be prepackaged close to market.

The word for orange in Hebrew is *tapuz*, which is translated golden apple. Citrus is the most important single crop of the Holy Land and constitutes a third of the export trade.

Growers of Gravenstein apples in California, and of peaches in southern California, the Gulf states and Georgia, a generation ago never heard the expression "chilling requirements," but they surely knew that something was wrong when trees failed to leaf out in spring. Another "plus mark" for science.

For those interested in advertising, try *Advertising: The Forgotten Years* by Eric Field, which tells interesting experiences from the past which are still helpful today.

A virus causing late foliation, dieback, and star-shaped cracks in Cox and Bramley fruit has been transmitted from diseased to healthy trees by grafting, by Posnette and Cropley of East Malling, England.

Mounded strawberry beds covered with thin sheets of polyethylene are reported by Voth and Bringhurst of California to result in less fruit rot, cleaner fruit, earlier fruiting, and lower salt accumulation in the soil.

George Oldreive of Port Stanley, Ontario, feels that older men are a good bet in today's orchard labor force. "You can tell them what you want and they will follow . . . and they are less inclined to chatter."

Milton Weiss, of Summerland, B.C., reports yields of McIntosh, Delicious, Winesap, and Rome on EM IX (8 x 15) to be superior to the same varieties on seedling roots (30 x 30)—not only the first few years in the orchard but even through the nineteenth year.

It has been shown that viruses may be transmitted from one tree to another by root grafting that naturally occurs underground.

Commercial production of apples, peaches, and pears has been one of the most profitable enterprises in Italy since World War II. Bearing acreage is valued as high as \$6000 an acre.

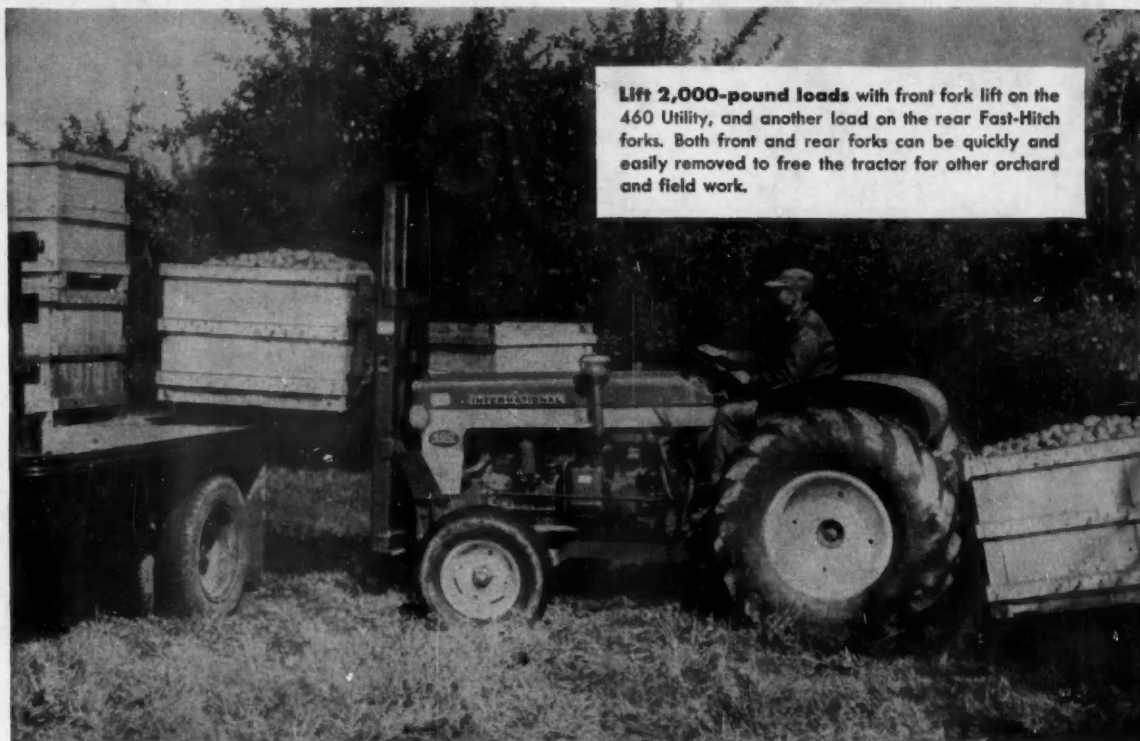
Says the Ontario Peach Growers' Cooperative, speaking of the need for tonnage and for reduction of duplicated effort, "... a really effective job of low-cost marketing cannot be done until all fruit crops come under one board."

Low potassium tends toward internal breakdown in Jonathan, according to Dewey of Michigan.

The tart cherry industry has been urged by its leaders to recognize the apparent decline in per capita consumption and seek new products and uses for cherries. —H.B.T.

Coming Next Month

- New England's Davis Fruit Farm—A Successful Family Enterprise
- Kansas Growers Have a Pick-Your-Own Program
- Diagnosing Vineyard Fertility Needs
- The NAI-IAA Story . . . and National Apple Promotion Plans



Lift 2,000-pound loads with front fork lift on the 460 Utility, and another load on the rear Fast-Hitch forks. Both front and rear forks can be quickly and easily removed to free the tractor for other orchard and field work.

Front fork lift: Harlo

DOUBLE LIFT on a new International® 460 Utility CUTS FRUIT HANDLING COSTS



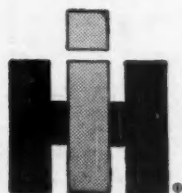
Fork lift: Harlo

For year 'round loading and handling, you'll get efficient, low-cost operation with this 4,000-pound capacity fork lift and reverse steering. This fork lift is available for both International 340 Utility and 460 Utility tractors.

Now, slash fruit-handling costs in orchard and grove with a new International 460 Utility equipped with fork lifts, both fore and aft. Here's big-capacity, carry-all service that speeds short hauls, often displacing the need for loading and unloading trucks.

Power, smooth and BIG, is developed by the new International 460 Utility—over 48 hp at the drawbar. New 6-cylinder power plant delivers the smoothest, most satisfying tractor power you've ever experienced. Multi-Range design insures top efficiency and economy at every setting from part-load to full-throttle. Gasoline, Diesel, and LP-Gas models.

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Test the new 460 Utility at your nearby IH dealership. Or write for catalog: International Harvester Company, Dept. AFG-8, P. O. Box 7333, Chicago 80, Illinois.

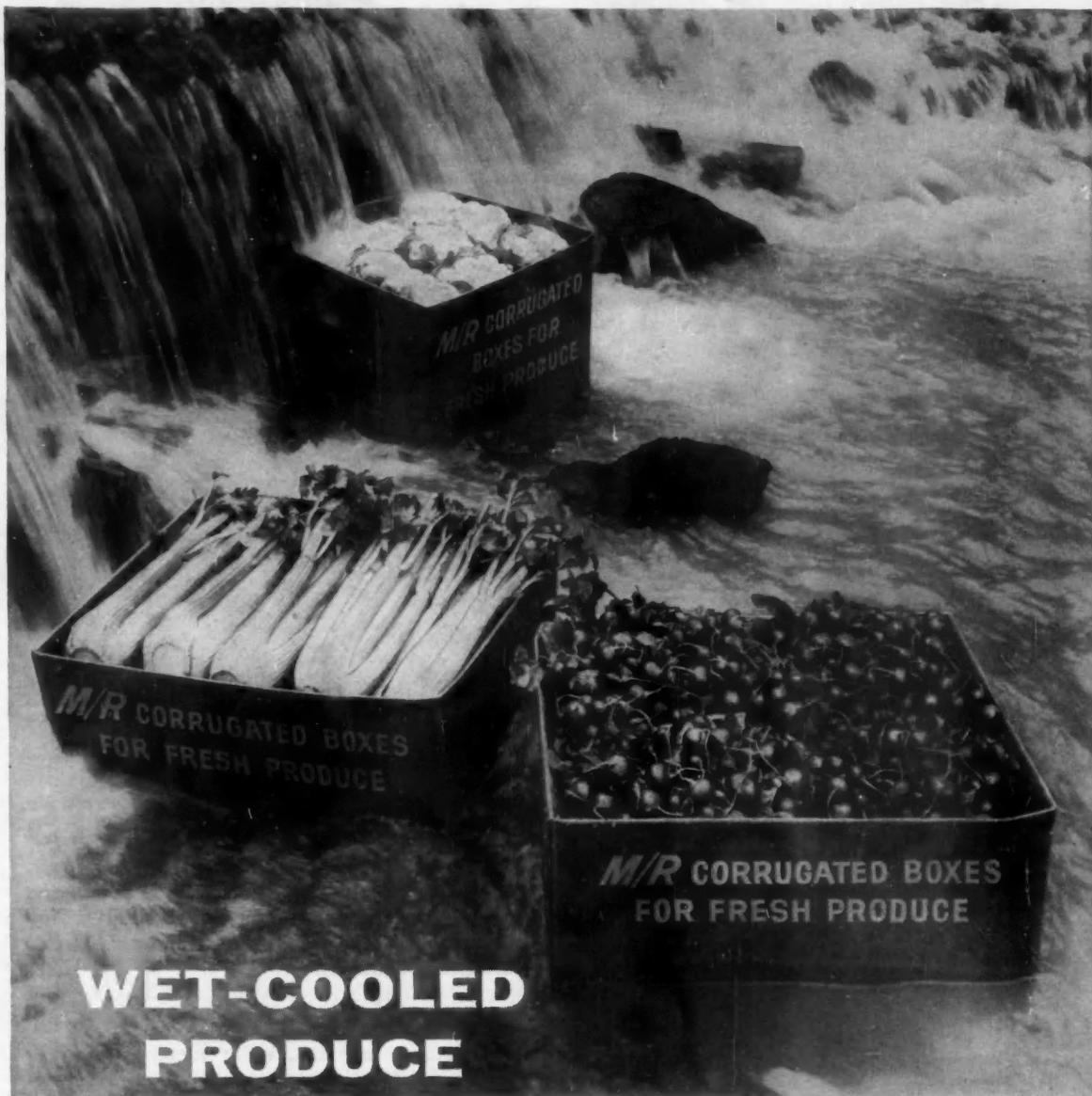
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